TO THE OWNER

Thank you for purchasing a “Pro-Drive Shallow Water Outboard”. Your unit is designed for long life, dependability, ease of operation, safety, and top performance that you deserve and expect.

Take time now to read this manual and the safety precautions.

Everyone who operates this unit must read and understand this manual. The time you take now will prolong your units life and prepare you for its safe operation.

Thanks again and enjoy.

Table of Contents

<table>
<thead>
<tr>
<th>Desc.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Instructions</td>
<td>3</td>
</tr>
<tr>
<td>Installation Instructions</td>
<td>4</td>
</tr>
<tr>
<td>Unit Component Identification</td>
<td>5</td>
</tr>
<tr>
<td>Identifying The Controls</td>
<td>6</td>
</tr>
<tr>
<td>Start Up</td>
<td>7</td>
</tr>
<tr>
<td>Operation Instructions</td>
<td>8,9</td>
</tr>
<tr>
<td>Reverse Lock</td>
<td>10,11</td>
</tr>
<tr>
<td>Unit Maintenance</td>
<td>12,13,14,15,16</td>
</tr>
<tr>
<td>Prop Removal and Installation Instructions</td>
<td>17,18</td>
</tr>
<tr>
<td>Trouble Shooting Tips</td>
<td>19</td>
</tr>
<tr>
<td>Warranty Information</td>
<td>20,21,22,23</td>
</tr>
</tbody>
</table>
Safety Instructions

**IMPORTANT**

Read and understand these instructions. They are for your safety. Failure to follow these instructions may result in property damage, personal injury, or death.

- Read and understand engine manufacturer’s owners manual.
- Attach safety kill switch lanyard to you before starting the engine. *(Attaching the safety kill switch is a suggestion only. Know your risks and situation before electing to use or not to use Know the boating laws in your state.)*
- Do not engage clutch while running engine out of water. Personal injury can occur if prop is spinning in open air.
- Keep legs and body clear from under tiller handle.
- Engage clutch to forward at idle only.
- Always disconnect the battery before servicing the engine.
- Never touch or attempt to remove the propeller, until the battery is disconnected.
- Remember to follow all boating regulations and wear your personal flotation device while on the water.
- Never use this unit when under the influence of alcohol or any other drug.
- It is your responsibility to operate the equipment in a safe manner, and for the use in which it was designed. If a defect in materials or workmanship occurs, it is your responsibility to cease operating the equipment until repairs are made. **Damage, injury, or death, which occurs from continued operation will not be covered by this warranty and Pro-Drive will NOT be liable.** You should contact your authorized Pro-Drive dealer immediately so that repairs can be made in a timely manner.
After installing your motor on the boat transom use the aluminum transom saver plate supplied with the unit, torque the boats to 25 ft. Lbs. of torque.

Located on the back of the transom bracket there are three sets of holes on each side. Drill a 3/8” hole through the transom. One on each side in the holes on the bracket. Use the 3/8” bolts and nuts supplied with your unit to secure the bracket in the holes drilled.
Unit Component and Control Feature Identification

- Engine
- Tilt Handle
- Fusible Reset
- Twist Grip Throttle
- "On The Fly" Trim Rocker
- Forward Engage Switch
- Momentary Forward Button
- Reverse Rocker
- Trim Rocker Switch
- Safety Kill
- Trim Cylinder
- Reverse Lock
- Transom Bracket
- Your PD# Is Located Here
- Engine Serial Number
- Tach / Hour Meter
- Friction Knob
- Tower Housing
- Cavitation Plate
- Prop
- Skeg Plate
- Lower Unit
Identifying the Controls and Control Box

- Custom Design Heavy Duty Tilt and Grab Bar
- Removable Brush Guards
- Marine Ignition Switch
- Marine Tilt & Trim Control
- Resettable Circuit Control
- Safety Kill
- Marine Fully Automatic Forward & Reverse Control
- Forward and Neutral Control
- "On the Fly" Trim Control
- Twist Grip Throttle
- Momentary Forward Control
**START UP**

*Note: your engine is shipped without oil. Oil must be added before starting your engine. See the engine manual. (Check before adding oil. Do not overfill)*

- Visually check unit for any loose, damaged or missing parts.
- Attach safety lanyard if electing to do so. (Check local laws.)
- Check engine according to the engine owners / operators manual.
- Make sure clutch is depressed (neutral position). *note engine will not start if clutch is engaged.
- Turn ignition key clockwise to the start position.
- After warm up, engage the clutch and accelerate by using the twist grip throttle on the tiller handle and your on your way.
- Remember only engage the clutch at idle. You may disengage the clutch at any time. Engaging the clutch at high rpm against a log or blunt object can damage the clutch and void the clutch warranty.
- Momentary clutch engagement (forward) may be used by depressing the black button while the clutch button (red button) is pushed in (disengaged)

*Note: Use ¼” fuel line and fittings with hose clamps to connect your engine fuel line to your tank.*

**Note: Due to new EPA Regulations on marine gas tanks, manufacturers are required to design their tank vents to hold approx. 6 lbs of pressure before venting. This poses a problem as most carburetor valves only hold 3 lbs. We recommend you install quick disconnects at the tank and remove when traveling or not in use.*


**Regular Operation**

- Make sure engine ignition is off.

- Check engine oil.

- Attach safety kill switch. (If electing to do so. Check local laws.)

- Make sure clutch button is pushed in ensuring it is in neutral. *Note: Engine will not start while the clutch button is pulled out.*

- Set trim allowing the engine to be slightly above level with the boat.

- Pull out the red or yellow button to engage the clutch to go forward. *Note: only engage the clutch button while the engine is at idle. Engaging the clutch at high rpm’s can damage the clutch and void the clutch warranty.*

- While on step, adjust trim to the best performance for your boat. Once your trim is set, there is no need to adjust it at any time, even while starting and stopping in normal running conditions. *Note: Do not try and submerge your prop or cavitation plate while on step. Doing so will decrease performance. Your prop is designed to run at the surface. (half of the prop is out of the water while on step)*

Footnotes:  

a) Tiller handle torque and slow speed indicates that the trim is set too far down.  
b) Extremely light tiller handle torque and speed loss indicates that the trim is too high up.
Running In Grass, Hydrilla & Lillies With Water Underneath.

- While your boat is on step and running, no trim adjustment is needed.
- Under extremely heavy conditions, you may need to trim down slightly, and clear the prop by raising the engine while getting on step. (Clearing the prop may need to be done more than once in heavy vegetation while getting on step.) Once on step, trim to normal running position.

Footnote: Raising the engine is done by pushing down on the tiller handle. If needed, the tilt handle can also be pulled on simultaneously.

Running In Shallow Water To No Water On Soft Mud.

- While your boat is on step and running no trim adjustment is needed.
- To take off from a dry stop in these conditions, you will need to trim your motor down to near maximum depth.
- Engage the clutch and open the throttle fully.
- Using your tiller handle, work the engine from left to right pushing mud until your boat is moving at about walking speed.
- Once you are at walking speed, trim up as you would under normal conditions.
- You will now be able to slow your throttle down to your desired speed.

Footnote: Should your engine load up (lose power) while trimmed down in the Above conditions, trim up until the engine is running normally again.
This picture shows the release lever lock in the unlock position.

Step 3. Once the unit is in reverse, lock the trim down with the lever loc.
*Note: the reverse lever must not be locked when running in forward gear.

Repeat the above procedure to return to forward gear.
Important

While in reverse in deep water, (anything over 10 inches), reverse gear should only be used at idle speeds. Full throttle in deep water conditions could cause your boat to become swamped.
Unit Maintenance

- Lower unit oil should be checked every 20 hours. Use only SAE 80W-90 or 75W-90 gear lubricant API service GL-5 (A synthetic gear oil or any high grade outboard lower unit oil may be used.)

- Lower unit oil should be replaced once a year or every 100 hours or if oil becomes dark or milky.

Diagram A – Checking the Oil
(Every 20 Hours)

With motor level remove the top outer plug with 1/4” allen wrench. Oil should flow out or you should be able to see it. Top off if needed. Replace the plug using teflon tape. Do not over tighten.
PRO-DRIVE LOWER UNITS RECEIVED A MODIFICATION UPGRADE TO IT’S LUBRICATION SYSTEM. THE GEAR SYSTEM IS STILL FILLED WITH OIL, HOWEVER THE PROP SHAFT NEEDLE BEARING AND SEAL CHAMBER IS NOW FILLED WITH GREASE.

* AN EP (EXTREME PRESSURE) GREASE IS RECOMMENDED. (WE USE CHEVON BLACK PEARL GREASE EP NLGI 2. LUCAS RED N TACKY IS ALSO ANOTHER EP GREASE) SEE THE ILLUSTRATION BELOW FOR DIRECTIONS.

THIS MODIFICATION WAS MADE TO INCREASE REAR SEAL LIFE IN EXTREME CONDITIONS TO PREVENT OIL CONTAMINATION.
The diagram below shows the tower housing sleeve grease fittings. Pump two to three shots of grease here at 15 to 20 hours.

YOUR LOWER UNIT TOP BEARING IS LUBED BY GREASE AND NEEDS TO BE GREASED AT 15 TO 20 HOURS. THE GREASE FITTING IS LOCATED HERE. NOTE: 10 OR 12 PUMPS ARE NEEDED AND YOU WILL NOT SEE RETURNS.
The diagram below shows the grease ports of the reverse assembly. These needs to be greased every 15 to 20 hours. Pump two shots of grease into each. Reverse should be rotated and two shots of grease applied to grease port 1 and 2 every click of the reverse until the unit has been rotated a complete 360 degrees. Note: Failure too lube reverse disc will cause drying and make the reverse operation difficult sometimes not allowing rotation.
Salt Water Applications

- After returning from trip wash complete unit with fresh water and allow to dry. Run engine.
- After engine cools. Spray engine and all components with Corrosion “X” or equivalent. Spray muffler with WD-40

Remote Steering Rigs

- Check all choke cables, steering cables, and throttle cables and lube after each trip.

*Note: Throttle rod inner bushing need to be lubed with silicon water based Lubricate only. Any oil or petroleum based products will ruin the bushing.
Propeller Removal and Installation

*Note: Do not engage the clutch to remove the prop. Doing so may damage the clutch and void clutch warranty.

Always disconnect to battery before attempting to remove the Propeller or any other work or service on your unit.

Remove the cotter pin from the prop shaft.

Using a 1-1/8” wrench and a light hammer blow unscrew the nut counter clockwise. Prop can now be slid off spline.

To install prop first apply Never Seez generously to the prop shaft.
To install the prop first coat the spline and thread with anti seize or equivalent and secure nut.

Using your 1-1/8” wrench tighten the prop. Next lightly tap the wrench to further tighten the nut to align the prop shaft hole with one of the slots in the nut. Install cotter pin.
## Trouble Shooting Tips

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TILLER HANDLE TORQUE</td>
<td>*Make sure you are trimmed correctly (SEE PAGE 7)</td>
</tr>
<tr>
<td></td>
<td>*Make sure your weight distribution is correct (Test by running alone while empty)</td>
</tr>
<tr>
<td>UNIT NOT PERFORMING</td>
<td>*Check engine rpm's in neutral at full throttle. Rpm's need to be at 4700 to 4750. Your prop could also be worn. Measure from tip to tip. It should be 12-1/4&quot; od.</td>
</tr>
<tr>
<td>ENGINE WON'T START</td>
<td>*Check to ensure that the clutch button is pushed in (disengaged).</td>
</tr>
<tr>
<td></td>
<td>*Check ground wire attached under the tiller handle (clean and retighten it).</td>
</tr>
<tr>
<td></td>
<td>*If this does not correct the problem, call your authorized dealer or Pro-Drive Outboards.</td>
</tr>
<tr>
<td>ENGINE LOSING POWER OR STOPPING</td>
<td>*Make sure your tank is vented.</td>
</tr>
<tr>
<td></td>
<td>*Make sure your fuel lines are 1/4&quot;.</td>
</tr>
<tr>
<td></td>
<td>*Make sure your fuel line connections are tight.</td>
</tr>
</tbody>
</table>
Pro-Drive Shallow Water Outboards carry a 1 year limited warranty, and are covered by Pro-Drive Outboards.

The Briggs & Stratton and Kohler engines carry a 3 year manufacturers warranty and are covered by the engine manufacturer. Pro-Drive can assist you should you have issues having your engine serviced.

Boat Trailers are covered by a 1 year limited manufacturers warranty, and are covered by the trailer manufacturer.

Pro-Drive Propellers carry a one year warranty against breakage. All propellers are billed upon shipment and credit is issued after inspection of the broken prop. Amount of propeller wear will determine the amount of credit issued.

All above warranties do not include shipping and does not cover normal wear and tear of equipment.

Before returning any products, you must first contact a Pro-Drive and request an RMA (Return Material Authorization). Products returned without obtaining an RMA will be rejected.

To obtain the RMA, contact Pro-Drive at. (337) 229-0034 Customer Service hours are 8 am – 5 pm Monday – Friday, CTS.

After acquiring the RMA, all products / parts must be promptly returned, with the original receipt of purchase, to:

Pro-Drive Outboards, LLC
2702 Lake Dauterive Road
Loreauville, La. 70552

Note: Warranties will not be honored without original receipt of purchase.
Pro-Drive Boat Limited Lifetime Warranty

Pro-Drive Boats are built for a lifetime and we warrant to any original owner that we will repair or replace, at our discretion, any hull found to be defective due to a manufacturing defect at no cost to the original purchaser for the first 5 years. After 5 years, any repair due to a manufacturing defect will be made at a cost not to exceed $300 per incident to the original customer for the Lifetime of a Pro-Drive Boat.

This warranty applies to the boat hull, welds, and workmanship. This warranty does not cover the engine, electronics, wiring or trailer. Paint, specifically, has no warranty. Any warranty claims on products sold, but not manufactured by Pro-Drive will be the responsibility of the original equipment manufacturer.

Warranty repairs will be made by Pro-Drive Outboards or an authorized dealer.

Shipping charges to and from a Pro-Drive location or an authorized dealer, are the responsibility of the customer. All other obligations or liabilities, including loss of use, inconvenience, commercial loss and consequential damages are hereby excluded. The manufacturer’s warranty does not apply to any products that have been subjected to an accident, adjustment, improper installation, misapplication, misuse, modification, neglect, repair, including but not limited to improper maintenance, salt water corrosion, or use of unauthorized parts or attachments.
Limited Warranty

Introduction:

Pro-Drive is the premiere manufacturer of shallow water outboards. Thank you for your purchase! Pro-Drive Outboards provides to you, at no extra cost, warranty coverage for your new Pro-Drive as part of our commitment to quality and reliability.

*Please take a few minutes to read this Limited Warranty Guide in its entirety.* It contains the information you will need to have your Pro-Drive repaired in the unlikely event that a failure should occur. *PLEASE NOTE: It is the customer’s responsibility to familiarize him/herself with the limited warranty guide.* For your records and ease of obtaining warranty work, please record the model, serial number and date of purchase of each item in the space provided. *NOTE: Warranty coverage may be different for attachments purchased at the same time with a motor.*

Dealer’s Name: ___________________________  _______________  
Dealer’s Phone: ___________________________  __________________ 
Purchase Date: __________________ Invoice #: __________________ 
Model: _________________________________  
Serial #: _______________________________  
Attachments: _______________________________  

Warranty Start Date

The warranty coverage begins on the day you purchase your new Pro-Drive.

Pro-Drive Limited Warranty

Pro-Drive Outboards LLC will, through its authorized dealers, repair or replace any parts which are found to be defective in materials or workmanship. The defect must occur during normal use of the product and within the warranty period. The repair or replacement will be at no charge for either the part or the labor to repair or replace that part.

Warranty Terms

The terms of this warranty shall be for one year from the warranty start date as specified above.

Limitations

PRO-DRIVE OUTBOARDS LLC DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR PRO-DRIVE ANY OBLIGATION OR LIABILITY OTHER THAN THAT STATED IN THE LIMITED WARRANTY GUIDE. UNDER NO CIRCUMSTANCES SHALL PRO-DRIVE BE LIABLE TO THE CUSTOMER OR ANY OTHER PERSON FOR ANY CONSEQUENTIAL, INCIDENTAL, ECONOMIC, DIRECT, INDIRECT, GENERAL, OR SPECIAL DAMAGES ARISING OUT OF ANY BREACH OF WARRANTY, EXPRESSED OR IMPLIED.
Customer Responsibility

It is the customer’s responsibility to maintain the equipment in accordance with the instructions provided in the Owner’s Manual. Pro-Drive recommends that you keep records and receipts; you may be asked to prove that the maintenance instructions have been followed.

It is your responsibility to operate the equipment in a safe manner, and for the use in which it was designed. If a defect in materials or workmanship occurs, it is your responsibility to cease operating the equipment until repairs are made. **Damage, injury, or death, which occurs from continued operation may not be covered by this warranty.** You should contact your authorized Pro-Drive dealer immediately so that repairs can be made in a timely manner.

What This Warranty Covers

This warranty covers defects in materials or workmanship only.

What This Warranty Does **NOT** Cover

- Failures caused by:
  - abusive operation
  - natural calamities
  - unauthorized modifications
  - unauthorized repairs
  - non-Pro-Drive parts
  - neglected maintenance
  - unapproved attachments
  - usage which is contrary to the intended purpose
- Wear or general maintenance items
- Propeller
- Engines (warranted by Engine Manufacturer)
- Pickup or delivery of the equipment
- Rental of replacement equipment during the repair period
- Overtime labor charges

How To Obtain Warranty Service

To obtain warranty service under the terms and conditions of the Pro-Drive Limited Warranty, you must deliver the product to an authorized Pro-Drive dealer, along with proof of purchase. **Pro-Drive recommends that you take your equipment to the dealer from whom it was purchased, for the warranty repair.** If that is inconvenient, it may be taken to any authorized Pro-Drive dealer. However, the dealer’s own customers may have priority.

Right To Make Changes

Pro-Drive reserves the right to make any changes to a Pro-Drive product at any time without incurring any obligation with respect to any product previously ordered, sold, or shipped.